IN THE CLAIMS:

Please amend the claims as shown in the following listing of claims:

- 1-2. (Canceled).
- 3. (Currently Amended) A vehicle front-view monitoring system for taking fail-safe measures comprising:
 - a camera device for taking an image of a view in front;
- a calculator for calculating luminance data on the image, wherein the luminance data provides a source for a luminance-distribution characteristic value indicating a horizontal luminance-distribution on the image; and
- a determination section for determining whether there is a fail occurring on the <u>image</u> taken by the camera, monitoring system based on the luminance data, the fail safe measures being taken if the fail is occurring,

wherein the luminance data indicate luminance distribution characteristic values indicating a horizontal luminance-distribution on the image, and

wherein the determination section determines the fail based on a parameter obtained by the calculator and normalizes normalizing the luminance-distribution characteristic values value by a shutter speed for the camera device.

- 4. (Currently Amended) The vehicle front-view monitoring system according to claim 3, wherein the luminance data <u>provides a source for the indicate</u> luminance-distribution characteristic value[[s]] that includes the maximum value of addition of luminance on the image.
- 5. (Currently Amended) The vehicle front-view monitoring system according to claim 3, wherein the luminance data <u>provides a source for the indicate</u> luminance-distribution characteristic value[[s]] that includes a luminance-addition variance on the image.

- 6. (Previously Presented) The vehicle front-view monitoring system according to claim 3, wherein the luminance data include data related to luminance edges in a predetermined monitoring area on the image.
- 7. (Previously Presented) The vehicle front-view monitoring system according to claim 6, wherein the number of related to luminance edges data is the number of luminance edges.
- 8. (Currently Amended) The vehicle front-view monitoring system according to claim 6, wherein the number of data related to luminance edges is the number of distance data obtained by a pair of cameras of the camera device.
- 9. (Original) The vehicle front-view monitoring system according to claim 6, wherein the monitoring area is set on the upper section of the image where a vehicle running ahead is displayed.
- 10. (Currently Amended) A vehicle front-view monitoring system for taking <u>a</u> fail-safe measure[[s]] comprising:
 - a camera device for taking an image of a view in front;
 - a calculator for calculating luminance data on the image; and
- a determination section for determining whether there is a fail occurring on the monitoring system based on the luminance data, the fail-safe measure[[s]] being taken if the fail is occurring,

wherein the calculator calculates a luminance center as the luminance data, the luminance center corresponding to a horizontal position on the image at which there is a convergence of luminance are converged, and the determination section determines the fail by evaluating the horizontal luminance distribution on the image based on the luminance center.

- 11. (Previously Presented) The vehicle front-view monitoring system according to claim 10, wherein the calculator calculates a luminance moment indicating the horizontal luminance distribution based on the luminance center and the determination section determines the fail based on the luminance moment.
- 12. (Original) The vehicle front-view monitoring system according to claim 3, wherein the calculator further calculates the number of data as another parameter related to luminance edges in a predetermined monitoring area on the image, the determination section determining the fail based on the parameters.
- 13. (Previously Presented) A vehicle front-view monitoring system, comprising: a camera device which is mounted on the vehicle for taking an image of a view in front of the vehicle;

an image recognition device which receives image data from said camera device; a vehicle state alteration device which is in communication with said image recognition device and alters a vehicle condition based upon image data criteria when there is deemed not to be a monitoring system failure;

a determination section for determining whether there is a monitoring system failure based on a luminance state condition; and

a fail safe implementation device which places said monitoring system in a fail safe mode based on the determination section determining a luminance based monitoring system failure has occurred, which fail safe mode precludes an activity in said vehicle state alteration device;

wherein said luminance state condition is a luminance condition deemed to present a potential for a lowered monitoring accuracy condition, and wherein said fail safe implementation device precludes any activity in said vehicle state alteration device until a restatement condition, wherein monitoring accuracy is judged acceptable, is established.

14. (Previously Presented) The monitoring system of claim 13, further comprising a calculator for calculating luminance data on the image;

wherein said determination section for determining whether there is a monitoring system failure occurring on the monitoring system based on a luminance state condition determines whether there is a monitoring system failure based on luminance calculations derived from said calculator.

15. (Canceled).

- 16. (Previously Presented) The monitoring system of claim 13 wherein said vehicle condition to be altered is a warning system and said fail-safe implementation device prevents said warning system from activating.
- 17. (Previously Presented) The monitoring system of claim 13 wherein said fail safe implementation device prevents the vehicle state alteration device from activating a vehicle control change in said vehicle.
- 18. (Previously Presented) The monitoring system of claim 17 wherein the vehicle control change of said vehicle state alteration device, which is precluded from activating in the fail safe mode, is a vehicle slow down control change.
- 19. (Currently Amended) The monitoring system of claim 30 further comprising requirement means for determining whether one or more of the fail safe interruption criteria is present, which requirement means is associated with one or more of the following criteria;
- a) that an upper luminance saturation factor LR1 is larger than a lower luminance saturation factor LR2;
- b) that a number of luminance edges EN of an area of the vehicle in front is smaller than a reference number;

- c) that a number of the calculation of the distance data is smaller than a reference number;
- d) that a luminance-distribution characteristics parameter normalized by a shutter speed VAR' is greater than a reference value;
- e) that a maximum addition of luminance normalized by a shutter speed Amax' is larger than a reference value.
- f) that a normalized luminance moment LM' is smaller than center corresponding to a horizontal position on the image which there is a convergence of luminance are converged that is smaller than a reference value.
- 20. (Previously Presented) The monitoring system of claim 19 wherein the requirement means determines that a fail safe mode interruption is appropriate if one or more of criteria a to f is not satisfied.
- 21. (Previously Presented) The monitoring system of claim 19 wherein the requirement means determines that a fail safe mode interruption is appropriate if just one of criteria a to f is not satisfied.
- 22. (Previously Presented) The monitoring system of claim 19 wherein the requirement means determines that fail safe mode activation is appropriate if one or more of criteria a to f is satisfied.
- 23. (Previously Presented) The monitoring system of claim 19 wherein the requirement means determines that fail safe mode activation is appropriate if two or more of criteria a to f are satisfied.
- 24. (Previously Presented) The monitoring system of claim 19 wherein the requirement means determines that fail safe mode activation is appropriate only if all of criteria a to f are satisfied.

- 25. (Previously Presented) The monitoring system of claim 30 wherein said determination section prevents said fail-safe measures from activating if a vehicle is recognized ahead or a distance to a vehicle is detected based on said image recognition device.
- 26. (Previously Presented) The monitoring system of claim 30 wherein said determination section includes means for preventing said fail-safe measures from activating based on camera shutter speed.
- 27. (Previously Presented) The monitoring system of claim 13, wherein said determination section for determining whether there is a monitoring system failure occurring on the monitoring system based on a luminance state condition determines whether there is a luminance state condition failure based on luminance calculations, and said fail safe implementation device prevents said vehicle state alteration device from activating an image recognition based vehicle control change in said vehicle.
- 28. (Previously Presented) The monitoring system of claim 13, wherein said determination section for determining whether there is a monitoring system failure occurring on the monitoring system based on a luminance state condition determines whether there is a monitoring system failure based on optical irregularities occurring on monitored images, and said fail safe implementation device prevents said vehicle state alteration device from activating an image recognition based vehicle control change in said vehicle.
- 29. (Previously Presented) The monitoring system of claim 10, wherein said fail-safe measures precludes activation of an image recognition based vehicle control change until conditions are sensed by said monitoring system that a luminance state is acceptable for proper monitoring system functioning.
 - 30. (Previously Presented) The monitoring system of claim 10, further comprising:

an image recognition device which receives image data from said camera device; and a vehicle state alteration device which is in communication with said image recognition device and alters a vehicle condition based on image data criteria;

wherein said fail-safe measures prevents the vehicle state alteration device from activating an image recognition based vehicle control change in said vehicle.

- 31. (Previously Presented) The monitoring system of claim 13, further comprising: requirement means for determining whether one or more fail safe interruption criteria is present, which requirement means is associated with one or more of the following criteria:
- a) that an upper luminance saturation factor LR1 is larger than a lower luminance saturation factor LR2;
- b) that a number of luminance edges EN of an area of the vehicle in front is smaller than a reference number;
- c) that a number of the calculation of the distance data is smaller than a reference number:
- d) that a luminance-distribution characteristics parameter normalized by a shutter speed VAR' is greater than a reference value;
- e) that a maximum addition of luminance normalized by a shutter speed Amax' is larger than a reference value; and
- f) that a normalized luminance moment LM' is smaller than center corresponding to a horizontal position on the image which luminance are converged is smaller than a reference value.
- 32. (Previously Presented) The monitoring system of claim 31 wherein, said requirement means determining that fail safe mode activation is appropriate only if all of criteria a to f are satisfied.
- 33. (New) The vehicle front-view monitoring system for taking fail-safe measures according to claim 3,

wherein the parameter is obtained by dividing the luminance-distribution characteristic value by the shutter speed for the camera device.

34. (New) The vehicle front-view monitoring system for taking fail-safe measures according to claim 3,

wherein the calculator calculates the luminance data on the basis of luminance values of sample pixels in preset monitoring areas on the image, the preset monitoring areas are arranged on the image in a horizontal direction.

35. (New) The vehicle front-view monitoring system for taking fail-safe measures according to claim 34,

wherein the calculator calculates sums of the luminance values in each preset monitoring areas and calculates the maximum value of the sums as the luminance-distribution characteristic value, and

wherein the determination section determines the fail based on the parameter which is obtained by normalizing the maximum value by the shutter speed.

36. (New) The vehicle front-view monitoring system for taking fail-safe measures according to claim 34,

wherein the calculator calculates a variance value of the luminance values as the luminance-distribution characteristic value, and

wherein the determination section determines the fail based on the parameter which is obtained by normalizing the variance value by the shutter speed.